

ABSTRACT
CIRCUIT TO IMPROVE DATA BUS PERFORMANCE

A circuit comprising an active pull-up device coupled to a level shift circuit is
5 coupled to a one-wire bus to allow communication devices coupled to the bus to better
detect digital communication signals propagating through the bus. The level shift circuit
provides a reference voltage signal that is typically above the circuit ground.
Communication devices coupled to the bus are better able to detect digital
communication signals propagating through the bus because such signals are raised
10 above at least a portion of the noise signals on the bus.